

ABSTRACT

An apparatus, system, and method improve the dynamic range of a receiver in the presence of a narrowband interfering signal. An error rate of a received signal is computed, and the input intercept point of a low noise amplifier in the receiver is adjusted based on the error rate. The transmit power level is detected, and the input intercept point is adjusted based also on the transmit power level. The received signal strength is also detected, and the gain of the low noise amplifier is adjusted based on the received signal strength. In this manner, the effect of crossmodulation on the received signal is reduced.

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